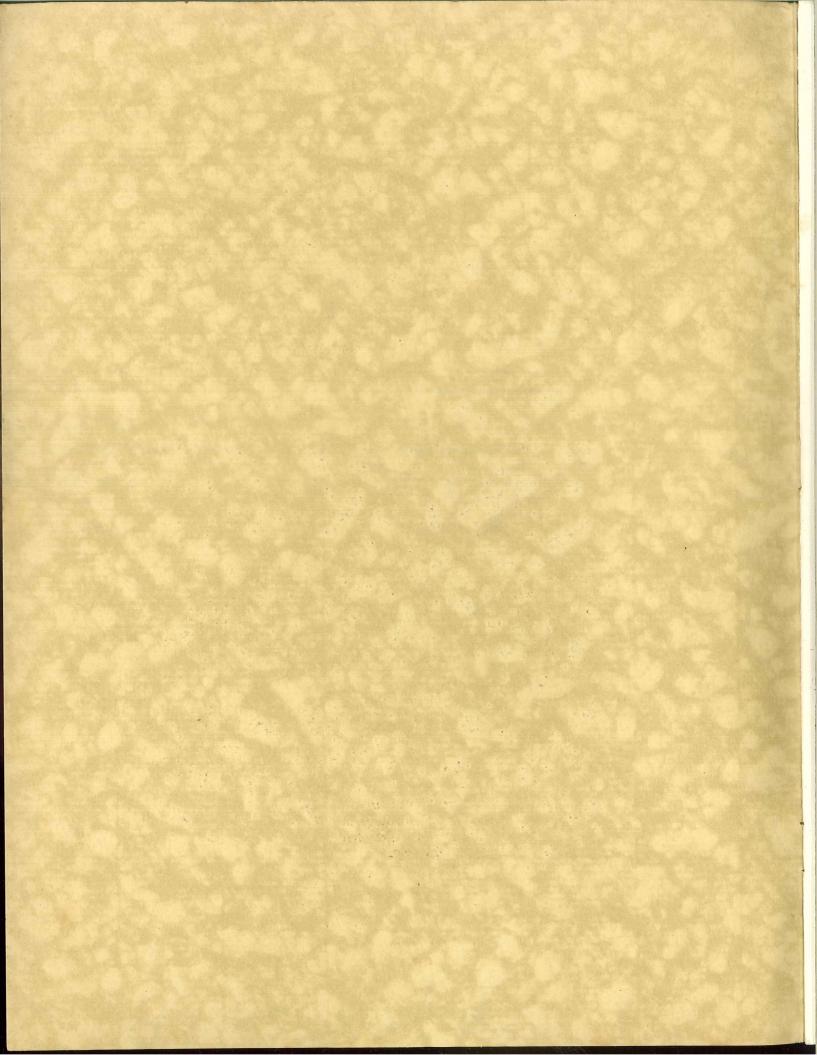
# Tevams Vanishing Door





CATALOG J.



# Evans Vanishing Door

"Millions Hang their Wraps in Evans Vanishing Door Wardrobes"

Patented in United States, Canada and Foreign Countries Trade Mark "VANISHING DOOR" registered in United States and Canada

Catalog' J. Fifth Edition
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Trade Mark
"RING JOINT"
Reg. United States Patent Office



Patented
UNITED STATES, CANADA
and Foreign Countries

Cable Address EVANSHINGDOR-Western Union Code

# W.L. EVANS

Washington, Indiana, U.S. a.

Windsor, Ontario, Canada

Printed in U.S.A.

File A.I.A No. 28b33



### Introductory

In presenting to the Architects, the Clergy, Boards of Education, Contractors and Public our Catalog J, we do so knowing that our previous catalogs are still working, and we will be pleased to receive and fill orders complete according to the class letters in these previous catalogs or supply Hinges A and Z as may be required. It is also agreeable to us, in taking new orders for any of the old class letters, to supply the new Hat and Hanging Rack with Garment Hangers if so specified in the contract. In Catalog J, each wardrobe has a class letter of its own and is not confused with any of the old class letters.

(See page 43 for Ring Joints.)

### STANDARDIZATION

Evans Vanishing Door Wardrobes are standardized in construction and mechanism. Few changes were made in the past nine years until now, and during this time our equipment has been placed in over 5,000 schools. Naturally, we have learned much of school wardrobes, and the architects who have so kindly assisted us in our work are legion. In compiling Catalog J we have retained the good points in our previous issues but have made radical changes in the hanging of garments, doing away with the shelves and hooks and now using a Hat and Hanging Rack together with Garment Hangers, conserving 33% of space over the old method, at the same time supplying a better and more orderly system.

#### Doors

All doors are made veneered, except the two panel doors for Yellow Pine Wardrobes, which have solid White Pine stiles and rails unless otherwise specified. The Flush Doors are made Evans Patent Process, which is a hollow sanitary door, the making of which requires special machinery and a knowledge of the art. Wardrobe doors are all made to set 4 inches above the floor, but can be set higher. The doors have no lugs.

#### **Paneling**

Framed-up paneling is made with solid stiles and rails and three-ply laminated panels. Flush smooth paneling is made five-ply laminated under a 300-ton hydraulic press and is thoroughly dried out before trimming to size.

#### Vent Screens

Vent Screens are framed up to the sizes required and the top covered with Galvanized Wire Mesh, giving a paneled effect on the under side. These are furnished with Wardrobes B, C, D, H, I, and J. The other classes in this catalog are not designed with vent screens nor so provided unless specially ordered.

#### Shelving

Instead of using shelving and hooks as on previous designs, the wardrobes as shown in Catalog J are provided with a hat and hanging rack together with garment hangers (see page 38), the eight-rod racks being used on wardrobes 2'-2" deep, and the ten-rod racks on those that are deeper.

#### Combination Book Case and Teacher's Closet

An ideal arrangement is shown in detail of Wardrobes Class X. It provides five book shelves, and a wide shelf above and a space below for shoes, a hook on each door and a hook on each end of the book case. This arrangement costs the same as those for pupils and can be furnished with any of the other classes.





#### Hinges

The Hinges shown in Catalog J are Class B and Class X. B is a floor hinge and X is a jamb hinge. The numeral connected to the letter designates the length of the arm.

Hinge B-7 is used in locker side of B and Wardrobes C, D, H, I, J, and for Teacher's Closet in Class O and T. The arms are of ½" steel and guaranteed to swing a 200-pound door, for all four pivoted arms carry the load.

Hinge B-10 is used in Wardrobes Class L, M, N, O, and R. The arms are made of  $\frac{9}{16}$ " steel and guaranteed to swing a 200-pound door.

Hinge B-12 is used on Wardrobe Class S and Garment Case V. The arms are of 5/8" steel and guaranteed to sustain a 300-pound door.

B-12—Garage is the same as B-12 with the exception that the foot plates are reversed. The arms are made of 5/8" steel. With this equipment the garage can be built shorter, for the doors swing around to the sides. The hinge lays close to the floor and even should a car pass over the arms it is not noticed. When the doors are open the wind does not affect them. See page 8 for details.

Hinge B is made to set the door 4" above the floor, and the word "Special" in front of B indicates a hinge that will set the door 6" above the floor. Hinges B are stronger than Hinges A and, while they work the same, they are a little different in construction and made to closer limits. See page 6 for details.

There is no danger of the pupils stumbling over a floor hinge, for it is inside the wardrobes, and even if it is stood on by a man it is not injured, for the door is also held from the top and will not spring down. This B-10 hinge is the best for heavy closet doors in the home.

Hinge X is a jamb hinge and has 7" arms made of  $\frac{\tau}{16}$ " steel, and guaranteed to sustain a door weighing 100 pounds. It is used in Wardrobes W and X and, if desired, in Closet T. Class X works similarly to Class Z, but is somewhat stronger and built more rigid, with closer limits, and can be secured more rigidly to the woodwork. It will set the door from  $3\frac{V_4}{4}$ " up to any height. The wardrobes, however, are designed to set the door 4" above the floor. See page 7 for details.

#### Finish of Woodwork

All woodwork is sold in the white without filling or staining. It is well crated, and shipped in a very dry condition and should arrive on the job in good shape. It should at once be painted on the back and the exposed surfaces filled. This dry woodwork should not be exposed to excessive moisture, such as a freshly plastered room.

#### Fals

For each door there is required a strip of felt, which is to be glued to the inner side of the trim against which the door strikes when closing. This makes the action noiseless. We insist that it always be used.

# Evans Vanishing Door Wardrobes, Lockers, Etc.

They occupy the smallest space possible. When the doors open THEY DO NOT BLOCK THE AISLES nor interfere with the use of the adjoining compartment. In the schoolroom they can be used during class hours, as any little child can operate them, and they are absolutely noiseless.

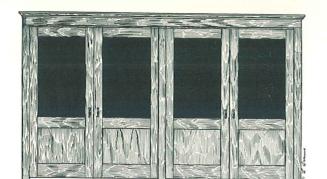
The value of the floor space saved more than pays for their installation. As an illustration: The school cloak-room and additional corridor space requires about 174 square feet—the wardrobes for each room occupy only 24 square feet—this makes a saving of 150 square feet, which would cost to build more than three times the cost of the wardrobe. Besides this, when the wardrobes are placed in the schoolroom they are directly under the eye of the teacher, thereby contributing to the morals of the pupils.

EVANS VANISHING DOORS move on double pivoted arms—no tracks or noisy rollers. Every piece of work is substantially built and guaranteed.

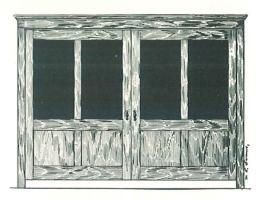


**9** 





Wardrobe Class L (Page 22)



Wardrobe Class S (Page 27)

### Blackboards and Hardware

The above wardrobes are shown with exhibit black-boards. They can be supplied to fit over the panels or to extend entirely across the door, the former being preferable. The blackboards can be supplied in either Fiber or Genuine Slate. The former being cheaper in cost, less expense to ship, lighter to handle, easier installed and will not break and therefore more desirable for exhibit blackboards.

We do not recommend blackboards on wardrobes for class work, as some of the dust would be drawn into the wardrobes. We can supply chalk troughs when required, but there is no occasion for them when blackboards are used for exhibit only. Our wardrobes take up so little space that there is always plenty of room on the wall for blackboards.

#### **Finishes**

The Wardrobe Hinges are hidden behind the doors when closed and it is not essential that they match other finishes. They are furnished in either Nickel or Black Gun Metal Finish, and when not otherwise specified the latter will be provided. All hinges are formed with Steel Dies, assuring a uniform product. Therefore, doors hung in the same way will work alike.

#### Umbrella Racks

When Umbrella Racks are specified they are provided one for each door and consist of a holder and

removable drip pan, the bar and pan being finished black gunmetal. They are not included as standard equipment, but are supplied at an additional cost. Our umbrella rack is shown on page 33. It is the best method of making an umbrella rack for the interior of a school wardrobe (we have sold thousands of them), but a much better way is to omit the racks and set two umbrella jars at the entrance to the schoolroom.

#### Door Pulls

The doors move so easily that a heavy bar door pull is unnecessary; however, a bar pull is furnished for each door, same being black gun metal finish.

#### Shoe Boxes

When Overshoe Racks are specified they will be furnished for an additional price. They are shown on page 33. We consider this the best arrangement for a shoe receptacle, but a better plan is to omit it entirely and set the shoes on the floor, for this will save the pupils' time.

#### Patent Date Plates

As the hinges are not only patented as a mechanism but also in combination with a door, we stipulate that the erecting contractor put our little patent date plates on each door. They are packed with the hinges before shipping.









**Today** 

The boys and girls of today go better dressed to school than those of the yesterdays did on Sunday, yet hanging equipment for wraps and hats in schools remains about the same, consisting of a hook on which to hang the coat and either a hook or shelf on which to place the hat.

A coat hung on a hook takes the shape as shown in our illustration "YESTERDAY," and the longer it so hangs the more the collar and shoulders will be stretched out of shape and the more pronounced the creases will be set in the garment. If damp when so hung and then allowed to dry out, it must then be

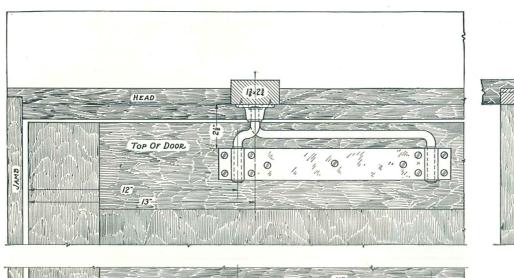
pressed before it will again have a good appearance.

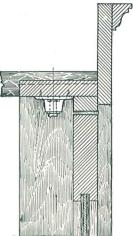
A coat properly draped on a hanger and so hung will hold its shape and take on even a better appearance, and should the garment be damp when hung, and allowed to dry out, it will come from the hanger as though it had been newly pressed.

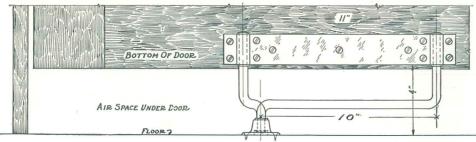
A flat or slatted shelf is a dust catcher and a hat placed thereon gets its share of dust; and, if hung on a hook, it is pulled out of shape and often knocked to the floor. The illustration "TODAY" shows our metal hanging bracket and two rows of heavy rods for hats.

C

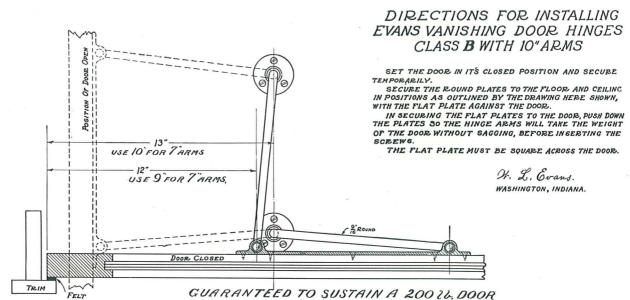
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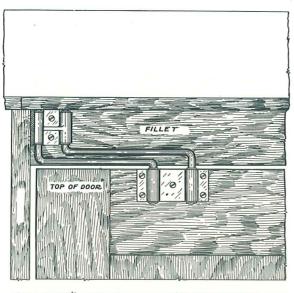


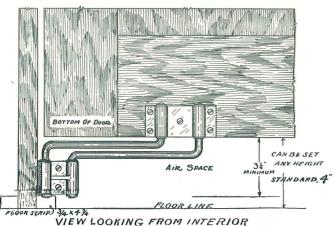
ELEVATION LOOKING FROM INTERIOR



INSTALLATION DETAIL HINGE B-10







16

15

14

13

12

11

10

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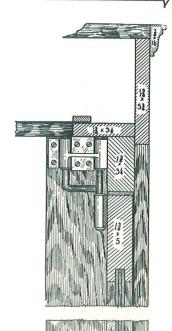
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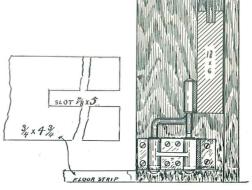
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P 00 F

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SECTION

### DIRECTIONS FOR INSTALLING EVANS VANISHING DOOR HINGES CLASS X WITH 7" ARMS

ASSEMBLE THE WARDROBES, (LESS THE DOORS AND FILLETS, ) OUT ON THE TLOOR WHERE THE WORKMEN CAN GET ALL AROUND THEM, THEN SECURE IN POSITION

NEXT SECURE THE DOORS TEMPORARILY, ONE AT A TIME, AND INSTALL

THE HINGES AS SHOWN BY THE DRAWING.

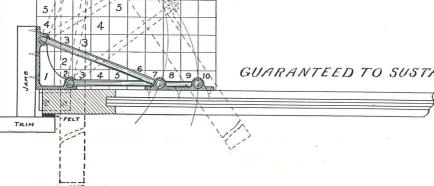
AFTER THE HINGES ARE OILED AND WORKING SMOOTHLY, THEN FIT

THE FILLET IN PLACE ABOVE THE DOORS.

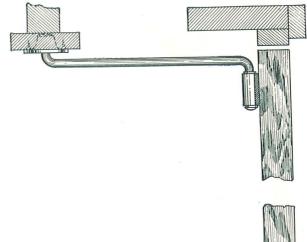
THE BOTTOM HINGE ONLY IS PROVIDED WITH A REVERSIBLE ANGLE PLATE WHICH CAN BE SECURED TO EITHER THE FLOOR OR THE JAMB.
TO FASTEN THE JAMBS TO THE FLOOR FIRST SECURETO THE
FLOOR, EXTENDING BAGK INTO THE WARDROBE, STAIPS \*\*\*X4\*\* CUT OUT TO FIT THE JAMBS.

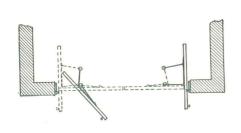
M. L. Evans. WASHINGTON, INDIANA.

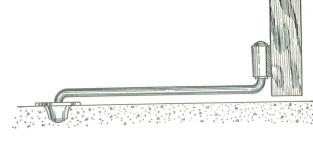
GUARANTEED TO SUSTAIN A 100 26. DOOR.

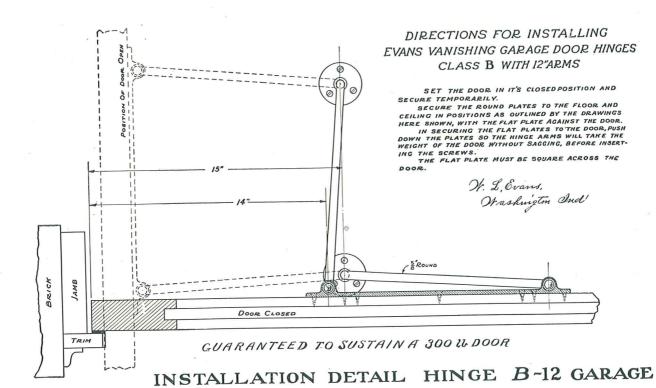




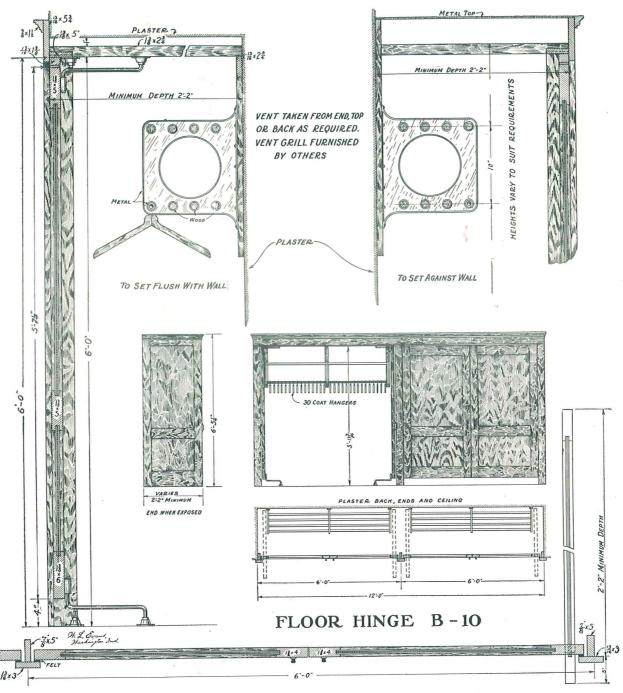








CU



EVANS VANISHING DOOR WARDROBE CLASS R
THE SECTIONS ARE ALSO TYPICAL FOR WARDROBES L.M.N.O,R and S.

Cy

(J)



# Evans Vanishing Door Locker and Lavatory—Class B

The Ideal Lavatory and Locker for Office Buildings.

Economy in floor space.

The space saved more than pays for the equipment.

Made with or without Mirrors, Glass Shelf Towel Rod Plumbing not included

These Lavatories and Lockers are very desirable to use in connection with Wardrobes Class A. Three 4-foot units being for Pupils, with the addition of a 2-foot unit for Teacher's Closet and a 2-foot 6-inch unit for Lavatory. The four big schools at Akron, Ohio, are equipped in this manner, besides many others.

When the doors are open they vanish within the compartment, and the interior of the cabinet is not shaded by doors standing to one side of the opening. There is room in the closet for nine coats and as many hats.

See details for this cabinet on page 11.

The above equipment is exceptionally convenient.

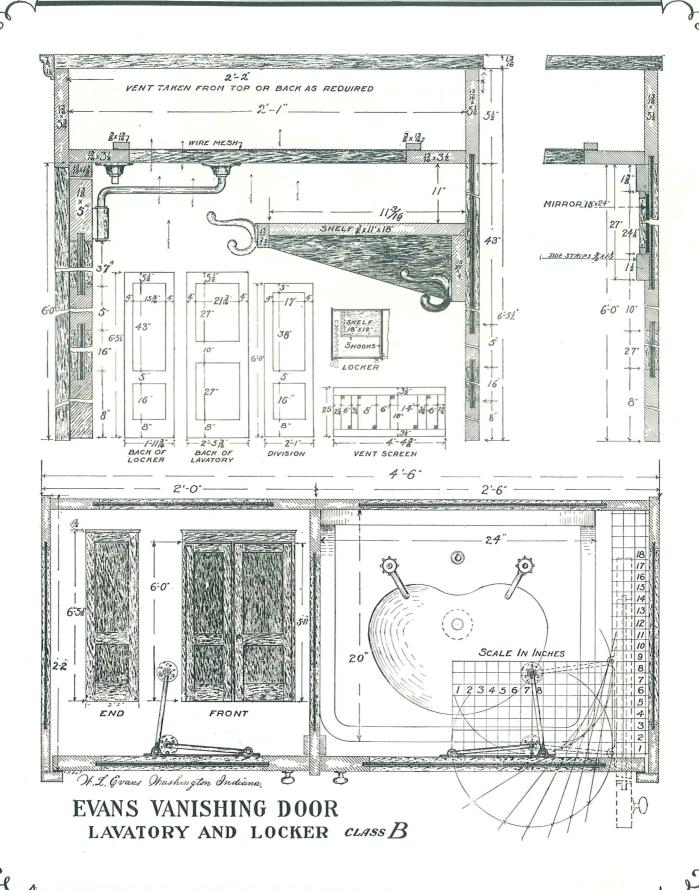


Ventilated

Convenient

Noiseless

Sanitary



WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.

Page Eleven



# Evans Vanishing Door Wardrobe—Class C

Sanitary Ventilated Easy to Open Made with or without exhibit blackboards. The vertical air currents dry the clothes. Economy in floor space.

Doors do not block the aisles.

Noiseless Doors Cannot Stick Easy to Close

EVANS VANISHING DOOR WARDROBES CLASS C are the highest grade known to us. The doors are made Evans Patent Process, which is a hollow sanitary door, weighing but half that of a solid door.

The doors will positively not shrink or swell in length or breadth. The light weight and staying qualities of these doors make them very desirable for use in Schoolroom Wardrobes, or, in fact, any place where price does not prohibit the best door possible to produce. These Hollow Doors are well known throughout the United States and can be found in such buildings as the St. Louis City Hospital, the French Lick Springs Hotel, etc. There are thousands of them in the Cincinnati, Ohio, Hospitals. In order to properly produce this door it requires special equipment and a knowledge of the art.

The walls and divisions are made five-ply laminated, the veneer being re-shrunk and then fabricated under a 300-ton hydraulic press. As the flush doors and laminated panels require in their making

two drying periods of about seven days each, they cannot be produced as quickly as other panel work. When blackboards are used it is necessary to plant them on the door, using a very small rabbeted mold.

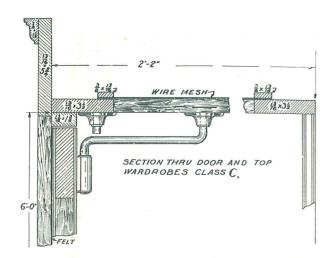
The price of these Wardrobes is made as low as consistent with the character of the work, and we take this occasion to caution other manufacturers against attempting to make these Hollow Doors without special equipment and a manufacturer's license.

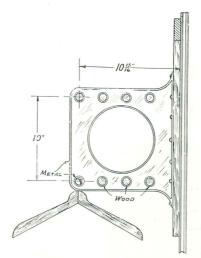
Wardrobes Class C, as shown, are made to set flush with the wall. In preparing the recess, the length should be units of 4 feet plus 2 inches, the net depth  $26\frac{1}{2}$  inches, and the height 6 feet 3 inches from the top of the finished floor to the rough lintel. See details on the opposite page.

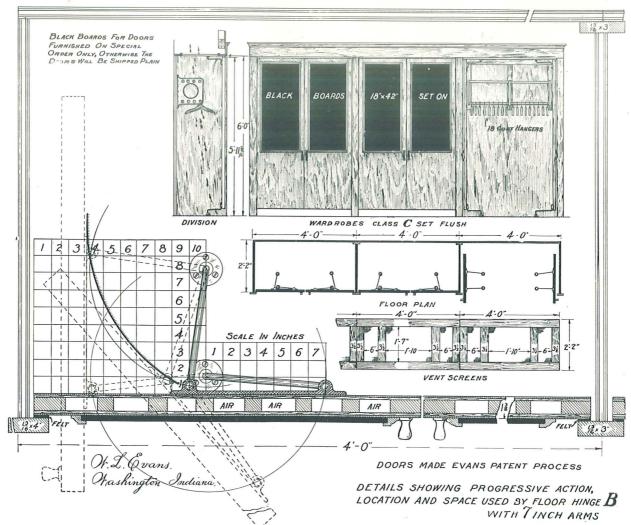
When so ordered, Class C can be made to set against the wall and provided with a top.

For Size of Hinges, Ventilation, Combination and Installation see text under cut of Class H, page 16.









EVANS VANISHING DOOR WARDROBE CLASS C

C



# Evans Vanishing Door Wardrobe—Class D

Made with plaster back and ends.

Doors do not block the aisles.

Noiseless Doors Cannot Stick Closes Easily

Ventilated Sanitary Opens Easily

Wardrobes Class D are the same as Wardrobes J except that they have Evans Patent Process Doors, which is a hollow sanitary construction the same as Class C. The doors can have Blackboards planted on if desired. Blackboards are only recommended on ventilated wardrobes for exhibit purposes; for, if used for class work, some of the dust will be drawn into the wardrobes.

#### Recess

Class D is made to set flush with the wall in a recess with plaster backs and ends and without divisions. The size of the recess is approximately 6'-3" high, exactly 2'-2" deep, and the length is the combined width of the units, nothing added. Measures of length and depth are taken from the plaster line. The length for three 4' units is 12'-0". See details on opposite page.

#### Kind of Hinges

The doors are hung on standard Class B Hinges, which will set the doors any height up to 4", or, if

specified, on Special Class B Hinges, which will set the door any height up to 6". If desired, Class X doors and hinges can be used, they necessitating a 3½" fillet above the door.

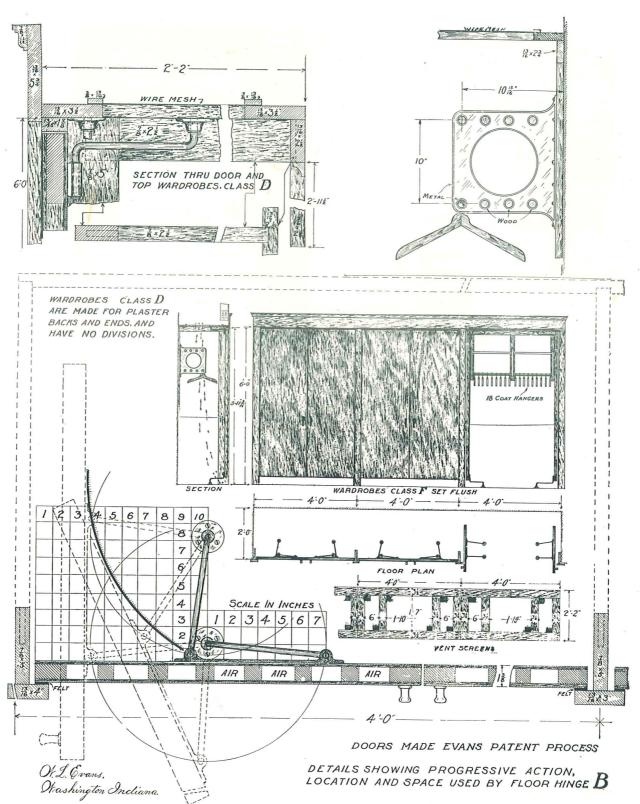
#### Ventilation

The vent can be taken from any part of the wardrobe and connected to the vent stack. We recommend that it be taken from the top; however, it will work all right if taken from the end or back, in which case, if so specified, we furnish a panel top instead of screen vents, at the same price, but the screen required by the new vent opening would then be furnished by others.

#### Installation

For installation see description, Wardrobe Class J, and detail page 6, using the distance shown for 7" arms.





EVANS VANISHING DOOR WARDROBE CLASS D

WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.

Page Fifteen



# Evans Vanishing Door Wardrobe—Class H

Ventilated Sanitary Opens Easily Vertical air currents dry the clothes.

Economy in floor space.

Doors do not block the aisles.

Noiseless Doors Cannot Stick Closes Easily

Wardrobes Class H, as here shown, are made to set against the wall and provided with a top; for sizes and construction see details on opposite page. Unless otherwise specified, Standard Class B Hinges are used, which will set the doors up to 4 inches above the floor. For additional height Special Class B Hinges are provided which will set the door anywhere up to 6 inches above the floor.

When so required, wardrobes can be furnished with Class X Hinges and doors by changing the fillet above the doors to  $3\frac{1}{4}$  inches.

#### Ventilation

The wardrobes are ventilated by an upward current of air taken from under the doors and passing upward through the vent screens. It is then taken from the top, end or back and connected to the vent stacks. When it is required to take the vent from the end at the floor it is done by omitting the panels in the divisions.

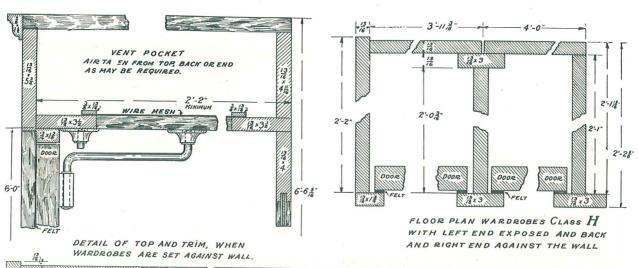
#### **Combinations**

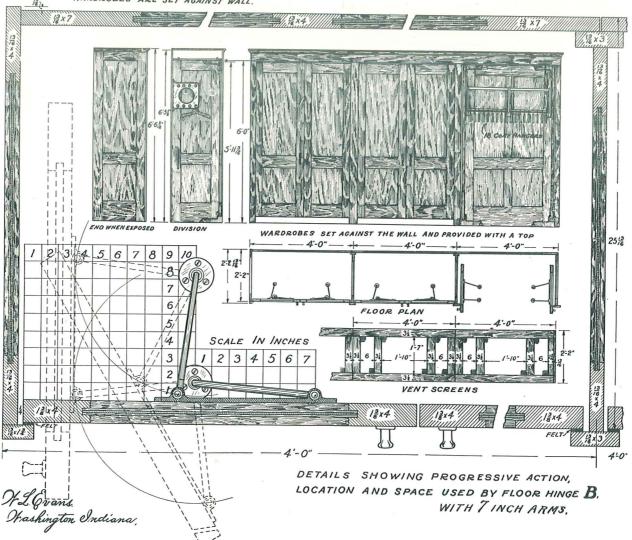
Any number of 4-foot units can be connected. Also 2'-0" and 2'-6" units can be arranged to suit. A combined Book Case and Teacher's Closet can be furnished as shown by Wardrobes Class X, page 30.

#### Installation

Turn to the detail on the opposite page and assemble the work out on the floor where the workmen can get all around it. The work can be assembled either vertical or horizontal and then set vertical. In assembling omit the racks, doors and fillet until the wardrobes are set in place. Then set the doors in their closed position and secure temporarily, one door at a time. Then secure the hinges in place as shown by the figures in the little squares on the detail on opposite page or turn to page 6 for instructions, using the figures for 7" arms. After the doors are working smoothly fit the fillet above the doors and secure the racks in place.







EVANS VANISHING DOOR WARDROBE CLASS H



# Evans Vanishing Door Wardrobe—Class I

Ventilated Sanitary Vertical air currents dry the clothes.

Noiseless Doors Cannot Stick

Evans Vanishing Door Wardrobes Class I, as here shown, are made to set flush with the wall. For sizes and construction see details on the opposite page.

For Doors, Hinges, Ventilation, Combinations and Installation see text under cut of Wardrobes Class H, page 16.

For details of Hinge B-7 see page 6.

#### Selection

Pick out the class letter that will best meet the requirements as to detail. All classes are alike as to hanging space and convenience, and the ventilation can be arranged to suit the architect. Some are lower priced than others, but all are made with the same modern equipment by experienced men who know what to do and how to do it.

There are more Class I Wardrobes sold than any other, not that it is any better. It is medium in price,

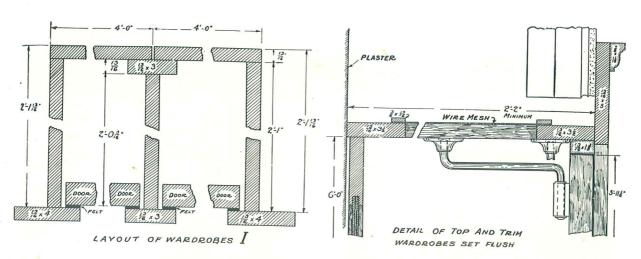
just between the highest (Class C) and the cheapest (Class X).

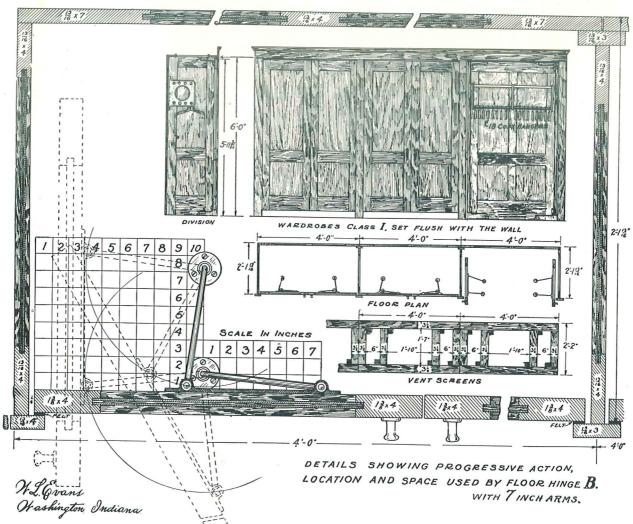
#### Size of Recess

The height of opening is 6'-3" from the finished floor to the rough lintel above. The depth is 2'-2", and the width is the sum of the units plus 2". The two latter measurements are from the plaster line. As an illustration, the size recess for the above section of three 4'-0" units is 12'-2" long, 2'-2" deep, and 6'-3" high. These measurements can vary 1" without interfering.

Class I is made with panel backs, ends and divisions and is similar to Class H other than it is made to set flush and has no top. It is the old Class A-2 with the lugs removed from the doors, and hat and hanging rack provided instead of shelves and hooks, and has B-7 hinges. The doors set 4" above the floor.







EVANS VANISHING DOOR WARDROBE CLASS [.

WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.

Page Nineteen



# Evans Vanishing Door Wardrobe—Class J

Ventilated Sanitary Opens Easily Vertical air currents dry the clothes. Economy in floor space.

Doors do not block the aisles.

Noiseless Doors Cannot Stick Closes Easily

Evans Vanishing Door Wardrobes Class J as here shown are made to set flush with the wall and for plaster ends, backs and ceiling; without divisions. For sizes and construction see details on the opposite page. Standard Class B Hinges are used. They will set the door up to 4 inches above the floor. For setting the doors a greater height from the floor Special Class B are provided which will set the door any height up to 6 inches above the floor. When so required the wardrobes can be equipped with Class X Hinges and Doors by changing the fillet above the doors to  $3\frac{1}{4}$  inches.

#### Ventilation

The wardrobes are ventilated by an upward current of air taken from under the doors, and connected to the vent stacks from any part of the wardrobes as may be specified by the architect.

#### **Combinations**

Any number of 4'-0", 2'-0" or 2'-6" units may be combined in a section together with a combination Book Case and Teacher's Closet as shown in Class X.

This latter costs the same as a Unit for Pupils, of the same width. When a division is required between the Teacher's Closet and the Standard Units, same will be furnished at additional price.

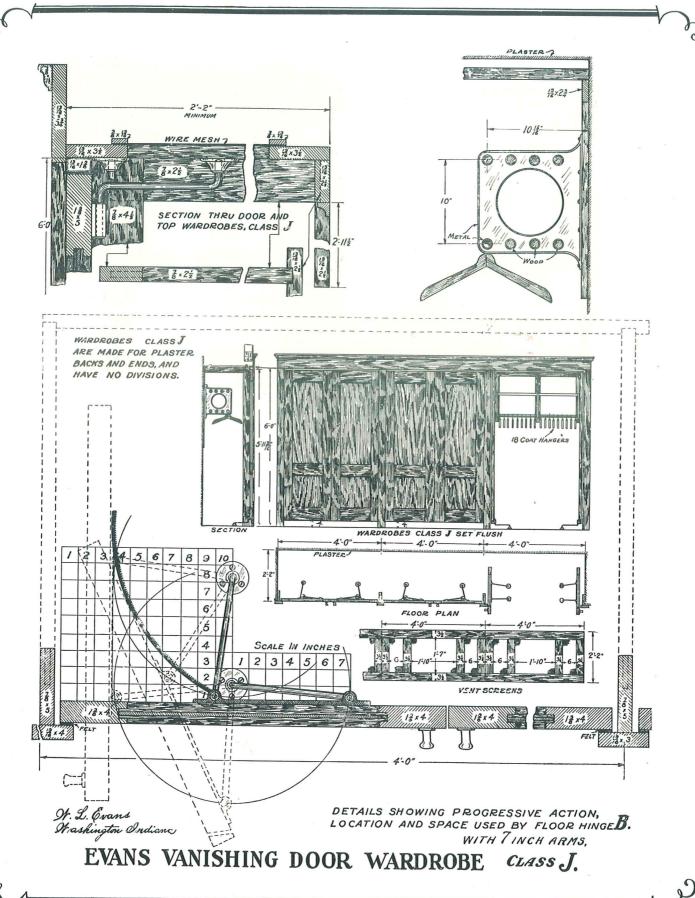
#### Installation

Turn to the details on the opposite page and assemble the work out on the floor where the workmen can get all around it, omitting the doors, racks and fillet above the doors until the wardrobes are in place. After the wardrobes are in place set the doors in their closed position, one at a time, securing temporarily. Secure the hinges in place as shown by the little squares on the detail. After the doors are working smoothly fit the fillet above the doors and secure the racks in place. For further instructions in installing the hinges see page 6, using the measurements for the 7" arms.

#### Size of Recess

The recess is approximately 6'-3" in height, exactly 2'-2" deep, and the length is the exact sum of the units in width, nothing added. Three 4-foot units require 12'-0" between the finished plaster.





WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.



# Evans Vanishing Door Wardrobe—Class L

Made for plaster backs, ends and ceiling. The ventilation is to be arranged by the architect. Vent screens not shown and are not provided by us unless quoted.

Where conservation of space is paramount the above arrangement is particularly desirable.

Wardrobe L consists of two 5-foot units, one for boys and one for girls, each unit provided with 24 hangers, or a total of 48.

The space required, taken from the finished plaster line, is 10' wide, 2'-2" deep, and 6'-2" high.

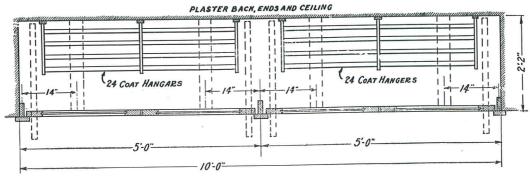
In dismissing the class a monitor for boys and a

monitor for girls open the wardrobes silently and quickly without waiting for the teacher to lead the procession.

For the similar wardrobe of larger capacity see Class R, page 26.

When a teacher's wardrobe is required, we call attention to the ventilated independent unit T, page 32, which can be set in any part of the room.

Blackboards can be furnished either to fill the panel or to extend across. We only recommend blackboards for exhibit purposes. For details see page 9.



EVANS VANISHING DOOR WARDROBE CLASS L





# Evans Vanishing Door Wardrobe—Class M

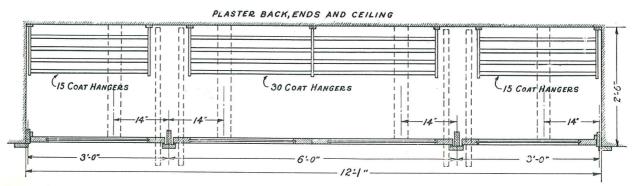
Made for plaster back, ends and ceiling. The architect to arrange the ventilation. Vent screens not shown nor included unless quoted.

The size of the opening, taken from the finished plaster line, is 12' wide, 2'-6" deep, and 6'-2" high.

The wardrobe consists of one 6'-0" unit for pupils, one 3'-0" unit for pupils, and one 3'-0" unit for teacher's closets.

This wardrohe is designed to meet the specifications of the architect who requires the doors to swing away from the ends. We are willing to accede to an architect's demands. It is through their specifications that we have been enabled to produce this complete line of wardrobes.

We are not trying to dictate to the architect and could not if we wanted to, but if someone were to ask us what we liked best we would unhesitatingly state Class O and then follow with Class L, R and S, with independent teacher's closet Class T.



EVANS VANISHING DOOR WARDROBE CLASS M FLOOR HINGE B-10



Page Twenty-three



# Evans Vanishing Door Wardrobe—Class N

Made for plaster back, ends and ceiling. The architect to arrange the ventilation. Vent screens not shown nor provided unless quoted.

Class N consists of three 3'-0" units for pupils and one for teacher's closet.

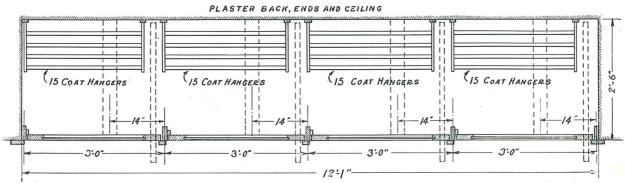
The mullions can be omitted and all doors made to line; blackboards can be placed on the panels or across the entire door as one continuous line.

The space required for the wardrobe, taken from the plaster line, is 12'-1" wide, 2'-6" deep, and 6'-2" high.

Compared to wardrobes in which the garments are hung on hooks, and the hats on solid or slatted

shelves, the above is most excellent, and the arrangement of doors was made for those who want it that way. However, Class O is a much better arrangement, having two units, one for boys and one for girls, and an ample teacher's closet. In Class O the garments are more accessible and less crowding will occur. Any of the other designs are better than Class N in which the doors open singly.

Regarding blackboards on schoolhouse ventilated wardrobes, don't use them for other than exhibit purposes, for chalk dust falling to the floor will be drawn up into the wardrobes.



EVANS VANISHING DOOR WARDROBE CLASS N FLOOR HINGE B-10





# Evans Vanishing Door Wardrobe—Class O

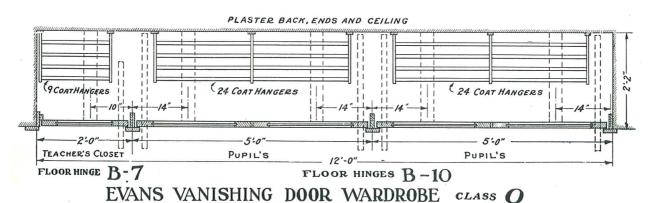
Made for plaster ends, back and ceiling. The architect is to arrange the ventilation, as it can be taken from any point. Vent screens are not shown nor provided unless quoted.

Class O consists of one 2'-0" unit for teacher and two 5'-0" units for pupils, one for boys' use and one for girls, segregating their wraps.

Each 5'-0" unit has 24 hangers or a total of 48. The hangers are removable, thus avoiding congestion and allowing the wraps to be properly draped on the hanger before it is hung on the metal rod.

As there are only two units for pupils, a monitor for boys and one for girls can silently and instantly open the wardrobes, while the teacher has no occasion to march down and open them, but can stand in front of the class while dismissing and watch their orderly retirement.

The space required for this wardrobe, taken from the finished plaster lines, is 12'-0" wide, 2'-2" deep, and 6'-2" high. The doors when open project 21/4" beyond the trim, only sufficient for a metal bar pull. They do not block the aisles. For details see page 9.



WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.

Page Twenty-five



# Evans Vanishing Door Wardrobe—Class R

Made for plaster backs and ends. The architect to arrange the ventilation. Vent screens are not furnished unless quoted.

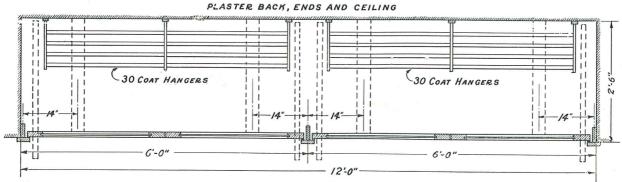
This is the daddy of two-unit wardrobes, each unit being provided with 30 hangers or a total of 60 hangers.

No matter if there are more girls than boys in the class, there is plenty of room in the wardrobe to segregate their garments.

The teacher need not bother to open the wardrobes, for a little boy and a little girl can be appointed to that task. Just touch the doors and they move.

The space required, taken from the finished plaster line, is 12'-0" wide, 2'-6" deep, and 6'-2" high.

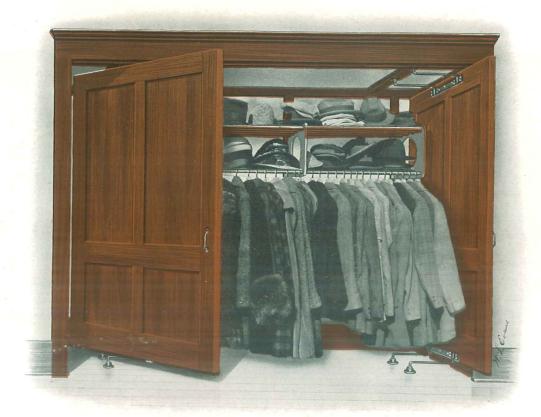
In connection with this wardrobe we recommend teacher's closet Class T shown on page 32. Set it anywhere. Everybody who sees it likes it. If you have the room you can't beat this combination.



EVANS VANISHING DOOR WARDROBE CLASS FLOOR HINGE B-10



W. L. EVANS



# Evans Vanishing Door Wardrobe—Class S

Made for plaster back, ends and ceiling. The architect is to arrange the ventilation. Vent screens not included unless quoted; they are not shown in the details.

The size of the opening, taken from the finished plaster line, is 8'-2" wide, 3'-0" deep, and 6'-2" high.

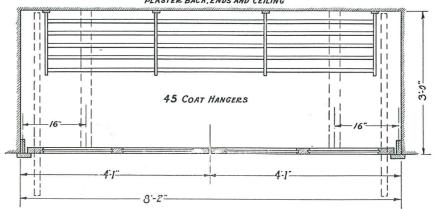
The wardrobe consists of one unit.

It would be out of place for a teacher to march down and open this wardrobe, for any little boy or girl can do it. The hinges are very strong, and the size is shown on

page 8. They have double pivoted arms and work easily and silently, and are guaranteed to swing a 300-pound door, while a door 4'-0" x 8'-0" weighs about 110 pounds. (The kind of wood making a difference.)

The State of Michigan requires school wardrobes to be 3'-0" deep, and that is how came a wardrobe of one unit 8'-2" wide and 3'-0" deep provided with 45 coat hangers and 10 rod brackets for hats. It is the super-wardrobe, no doors in the way and a clean sweep, no jostling of pupils.

PLASTER BACK, ENDS AND CEILING



EVANS VANISHING DOOR WARDROBE

CLASS S FLOOR HINGE B-12







# Evans Vanishing Door Wardrobe—Class W

Ventilated Sanitary Convenient Made for plaster backs and ends. Doors vanish within the compartment.

Noiseless Easy Movement Doors Never Stick

Wardrobes Class W are made to set between walls and provided with a top. For sizes and details see opposite page. The plastered wall forms the back and ends. It has no division, but where so required paneled ends are provided.

#### Hinges Used

The doors are hung on hinges Class X, which is a jamb hinge, and secured at the top against the jamb and the  $3\frac{1}{4}$ " fillet above the door. The bottom hinge is provided with an angle brace which can be turned to fasten to the floor or to the jamb. These hinges set the door from a minimum of  $3\frac{1}{4}$ " above the floor up to any height. The wardrobes are arranged to set the doors 4" above the floor.

#### Ventilation

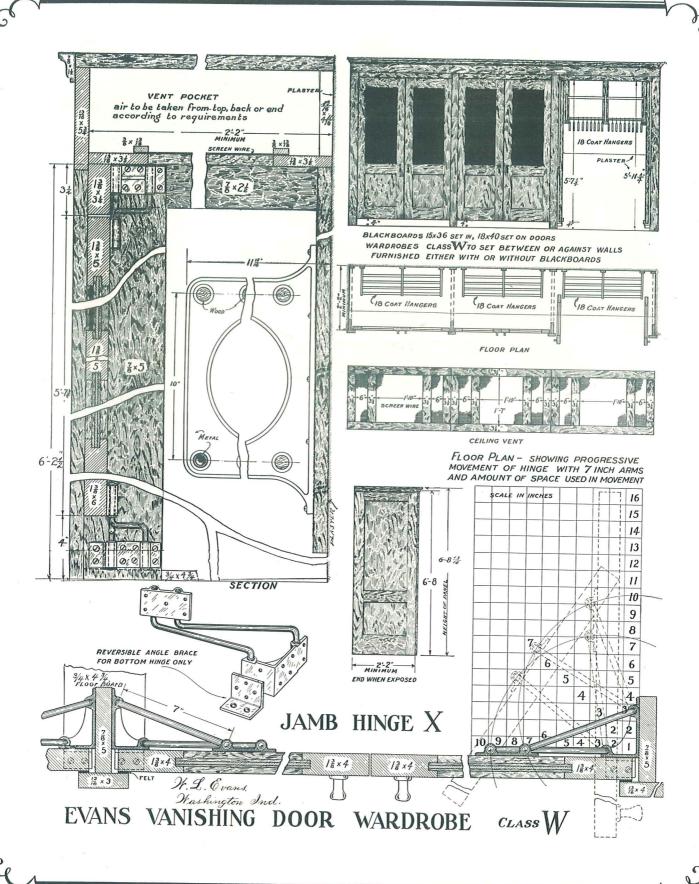
The vent can be taken from any point in the ward-

robe. We recommend that it be taken through the vent screens at the top, but when otherwise specified we will supply panels instead of vent screens at the same price, but the screen for the new vent opening would be provided by others.

#### Installation

Refer to the details on the opposite page, and assemble the wardrobes out on the floor where the workmen can get all around them, omitting the doors, fillet and shelves. After the wardrobes are in place secure the doors temporarily, one at a time, and install the hinges as shown by layout in the details, page 7. After they are working smoothly, fit the fillet in place and screw the upper hinges to it. Then secure the racks.





WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.



# Evans Vanishing Door Wardrobe—Class X

Ventilated Sanitary Convenient

Made for plaster backs, ends and ceiling.

Doors do not block the aisles.

Doors Move Easily and Silently They Cannot Stick

Wardrobes Class X are made to set flush in a plastered recess. For sizes and construction see details on opposite page. They are made with rod shelves and without divisions. They are equipped with Class X hinges, the same as described for Class W.

#### Wall Recess

The size of the finished plastered recess should be exactly 6'-3½" high, 2'-2" deep, and in even 4'-0" units with nothing added, or a total length of 12'-0" for three 4'-0" units.

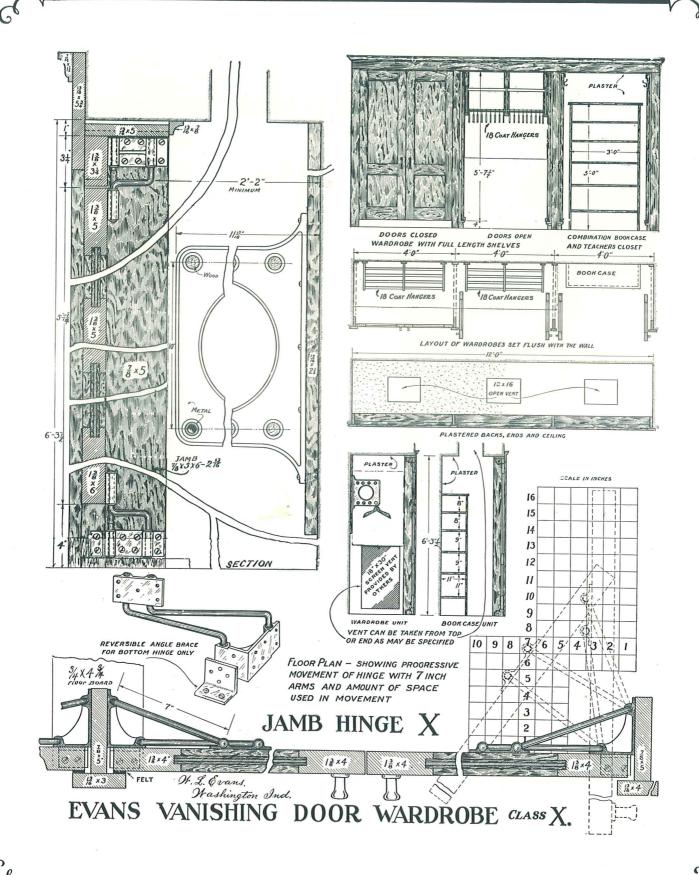
#### Installation

For installation refer to the text under cut of Ward-robe Class W and details page 7.

#### Book Case and Teacher's Closet

The cut and details show such a combination which gives plenty of room and convenience. Five shelves for books, a wide shelf above, an open space below for shoes, and a hook on each door and a hook at either end of the book case. This arrangement is the same price as that arranged for pupils. When so specified, it will be provided for any of the other classes.





WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.



# Evans Vanishing Door Cabinet—Class V

For display and storage of garments. See details on opposite page. The doors are hung on double pivoted arms. No tracks, guides nor rollers; no noise. A touch moves the door.

The hinges are especially strong and machined to the closet limits of .005", assuring a smooth-working hinge.

Hinges B-10 are used on each single door from 2'-6" up to 3'-0" in width, and are guaranteed to handle a 200-pound load.

Hinges B-12 are used on each single door from 3'-0" up to 4'-0" and are guaranteed to handle a door weighing 300 pounds. The fact is they have successfully handled a 500-pound load and are of the same strength as our garage door hinges shown on page 8.

The special cabinets for clothing stores are not carried in stock, but are made specially to order and

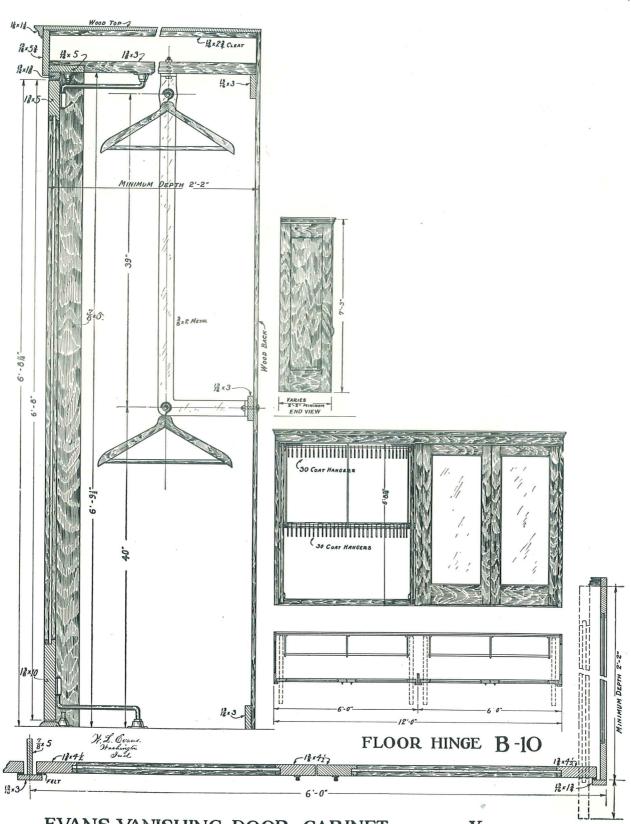
can be made any length, height or depth, with paneled ends, plate glass doors, wood top, and either paneled back or ceiling back, all in the knockdown, ready to assemble, in the white without filling or staining.

Whereas the cut shows the cabinet set on the floor, yet they can be furnished with a base pedestal, or this base can be furnished by the owner. It is ordinarily made of 2" x 4" pieces covered with flooring, with a base, nosing and quarter round.

If desired, we will furnish the hinges, metal supports and hangers separately.

If for some reason it is essential to have the cases built locally, we will then be pleased to quote on the metal supports, hinges and hangers separately. However, we do high-grade work and we believe it will be to our customers' advantage to buy the work complete in the white, ready to assemble. We get pleasing results and save our customers money.

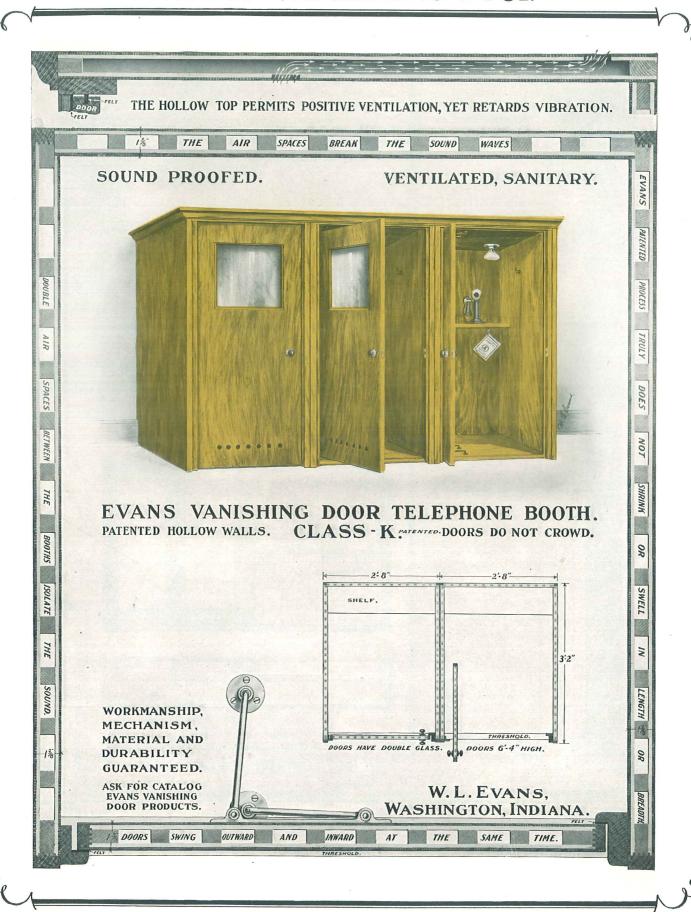




EVANS VANISHING DOOR CABINET CLASS V

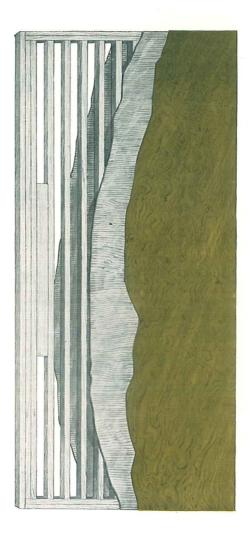
WASHINGTON, INDIANA, U.S.A. WINDSOR, ONTARIO, CANADA.

Page Thirty-five



Page Thirty-six

W. L. EVANS



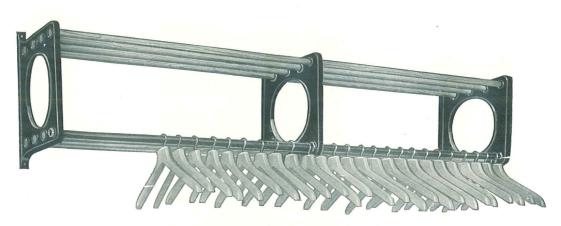
# The Hollow Sanitary Door and Panel Work EVANS PROCESS

Patented United States and Canada

The "Evans Process" Hollow Sanitary Door stands in a class all its own. It consists of a series of ribs and air spaces, on either side of which is laminated cross bands and veneers. The air spaces give lightness and sound-proof qualities to the door, making the doors and panels most desirable for use in Telephone Booths or anywhere that sound-proof qualities are required or where the best is wanted. The cores, being separated by air spaces, may shrink or swell without affecting the length or breadth of the door. Special equipment and a knowledge of the art are necessary in the production of this door.

The Telephone Booths on the opposite page are made the above Hollow Construction. It is impossible to hear conversation from one booth to another, for the sound must pass through three air spaces. The hollow top conceals the wiring, and, in ventilating, the air passes into the hollow space between the ribs near the bottom (as shown by the illustration), then up to near the glass line where it enters the booth, then into the air spaces in the top, then to the rear and is discharged. Closing the door turns on the light, which starts the ventilation. Smoke all you will; the next fellow using the booth won't smell it.

C



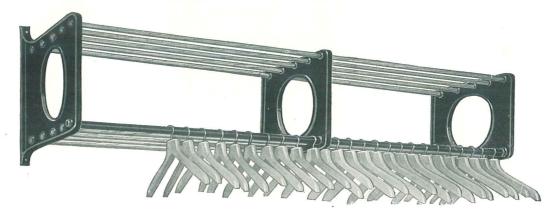
#### Racks No. 8

For Evans Vanishing Door Wardrobes

Each unit has three brackets, except Class S, which has four brackets. The racks are provided with eight rods, the hanging rod being of enameled steel.

There is provided one hanger for each 2" of length. The hangers are 15" for the grades and 17" for the high schools. In ordering wardrobes give the size hanger desired, otherwise 17" will be sent.

The above is used in our wardrobes that are 2'-2" in depth and can also be used in the wardrobes shown in Catalogs H and I, but in order to get these racks in any of the older Class Letters it must be so stipulated in the order and not after the work is made.



#### Racks No. 10

For Evans Vanishing Door Wardrobes

This rack is used in our wardrobes that are over 2'-2" deep. Rack No. 10 has ten rods, the hanging rod being made of enameled steel.

One hanger is provided for each 2" of length, either 15" or 17" as may be specified. If the size is not specified, then 17" will be sent.

In use the pupil removes the rack from the hanger and properly drapes the garment thereon. The hanger is then placed in position on the hanging rod.

In removing the garment it is simply stripped off and the hanger remains in position and is never flung to the floor. It is much quicker to remove a garment from a hanger than from a hook, for each garment is in plain view and not covered by another. What children are taught in school generally influences their home life.





is in use in or near the towns here listed. However, it is only a partial list, for it is in use in over 5,000 schools.

The number at the right hand shows the number of schools. For instance, Grand Rapids is listed as Grand Rapids 36, showing that there are 36 schools so equipped in Grand Rapids and vicinity.

It has not been practical to show pictures of these schools or list the names of the architects and contractors, for should we do this we would not be just unless we named all of them, which would take a book in itself. However, on request, we can name the architect. These school jobs cover a field from the largest to the smallest.

#### **INSTALLATIONS**

AT A DAMA				
ALABAMA	CONNECTICUT—Cont'd	ILLINOIS—Continued	INDIANA—Continued	IOWA-Continued
Birmingham, 12	Putnam	Lockport	Harris Station	Aurelia
ARIZONA	Tarriffville	Manhattan	Harrison Township,	Barnum
Tucson, 2	Torrington	Mattoon, 3	Vigo County	Belle Plains
r deson, 2	Waterbury	Morris	Helmsburg	Bode
ARKANSAS	West Haven	Mount Auburn	Hobart	Bondourant
El Dorado, 2	Westport	North Chicago	Honeytown	Braddyville
Newport	Wethersfield	Pana	Huntington	Burlington
Fort Smith	DELAWARE	Peoria	Indianapolis	Calumet
	Claymont	Riverside	Jimtown	Cedar Rapids, 2
CALIFORNIA	Dover	Rock Falls	Lagrange	Central City
Adelanta	Lewis	Rock Ford	Liberty	Clear Lake
Bell, 2	Wilmington	Rosamond	Logansport, 5	Collins
Bellflower, 3	3	Sheffield	Marion	Council Bluffs, 2
Belle Vernon	FLORIDA	Shelbyville	Martinsburg	Courtland Beach
Clearwater	Clearwater	Springfield	Mishawaka	Crawfordsville
Compton, 2	Gulfport	Sterling	Montgomery	Creston
Cudahy	Mount Dora	Strassburg	Morgantown	Crocker
Fresno	Pass-A-Grille	Sullivan	Morristown	Crystal Lake
Hawthorne	St. Petersburg	Tilton	Mount Erie	Danville
Huntington Park, 11	OFF COLUMN	Tovey	Mount Vernon	Des Moines, 7
Los Angeles, 6	GEORGIA	Villa Park, 3	Needham	Dysart
Maywood	Augusta	Waterman	New Carlisle	Elkhart
Monterey	Hephzibah	Waukegan, 6	North Salem	Estherville
Newhall	IDAHO	Westmore, 2	Osceola	Garwin
Ontario	American Falls	INDIANA	Plainville	Glidden
Pasadena	Avery	AND	Plymouth	Graettinger
Placentia, 4	Boise	Alfordsville	Portage Township,	Hinton
San Gabriel, 4	Burley	Atlanta	St. Joseph County	Huxley
Santa Paula	Kuna	Bass Lake	Rankin	Lake City
South Gate, 4	Moscow	Batesville	Richland Township,	Larrabee
Willowbrook, 3	Payette	Bentonville	Rush County	Lemars
COLORADO	Twin Falls	Bloomfield Butlerville	St. Joe	Luton
Herford	I will I allis		St. Paul	Luxemburg
11011014	ILLINOIS	Center Township, Delaware County	Scotland	Mason City, 4
CONNECTICUT	Aurora	Cicero	Seymour, 5	Maurice
Ansonia	Benton	Clarksville, 2	Shelbyville	Merrill
Beacon Falls	Boomington	Clay City	Shepardsville	Moorland, 2
Bridgeport, 2	Carrollton	Clay Township,	South Bend, 11 Terre Haute, 4	Moville
Danbury	Chicago, 2	St. Joseph County		Newburg
Fairfield	Cicero	Clinton	Vermillion County, Honey Creek Twp.	New Hampton Orient
Greenwich, 2	Crete	Clinton Township,	Vernon	Oskaloosa
Hartford	De Pue	Cass County	Walcottville	Patterson
Litchfield	Downers Grove	Columbus	Warren Township,	Paulina
Middlefield	East St. Louis	Cortland	Marion County	Perry
Middletown	Elmhurst	East Mishawaka	Washington, 2	Pleasantville
New Cannon	Evanston	Elkhart Township,	West Terre Haute	Quimby
New Haven, 3	Georgetown, 2	Elkhart County	Wheatland	Randall
Newington	Girard	Epson	Whiting	Redfield
New London	Hinsdale	Evansville, 3	Williamsport	Richland
Newtown	Joliet, 4	Florida Township,		Ripley
Norwalk	Lawrenceville	Parke County	IOWA	Sioux City, 4
Norwich	Libertyville	Glendale	Akron	Spencer, 2
Orange	Lisle	Glenwood	Ames	Viola





IOWA-Continued Wallingford Waterloo Webster City Whiting Whitmore

KANSAS Independence

Wiota

Lawrence Peabody

KENTUCKY Bellefonte Covington, 2

Dayton Fort Thomas, 2 Frankfort Madisonville Olive Hill

MAINE

Russell, 2

East Millinocket Livermore Falls Portland, 2 Rangeley

MARYLAND Clarksville Taneytown

MASSACHUSETTS

Attleboro Boston Chicopee, 2 Erving Gloucester Hampton Lexington Norwood Revere Roxbury Taunton, 2 Ware Westford

MICHIGAN

Addison Albion Algonac Alma Alphia Alta Amasa Ann Arbor Battle Creek Bay City, 3 Beaverdam Berkley Village, 2 Carrollton Channing Clawson, 3 Clinton Comstock Comstock Park

Constantine

Dearborn, 4

Detroit, 12

Dowagiac

Dickinson County,

Breitung Township

Covert

Deerton

Wyoming Park, 2 MINNESOTA Bird Island Breckinridge Castle Rock Cold Springs

MICHIGAN—Continued

East Lansing, 2 Ecorse, 2 Edmore

Erin Township, Macomb County

Escanaba Fenton Flat Rock Frankenmuth Fremont Gaines

Grand Junction Grand Rapids, 40 Greenfield Township,

Wayne County Halfway, 2 Harbor Beach Hastings Hermanville Hickory Grove Holland, 2 Holt, 2 Houghton Ionia, 2 Iron Mountain, 6

Jackson, 2 Kalamazoo, 4 Kingsford, 3

Lansing, 2 Lincoln Park Ludlow Manastique Michigamme Midland, 2

Millburg Monroe Morley Muskegon, 5 Muskegon Heights National Mine

Newaygo North Park Onstead Owosso, 2 Palmer Paynesville Pontiac River Rouge Roseville Royal Oak, 13

Saginaw, 4 Saint Johns Saint Louis Sidnaw South Rockwood Springfield Place Springwells, 2 Strathmoor Turin

Vulcan Wacousta Warren, 3 Watervliet Whittaker, 2 Woodland Wyandotte

MINNESOTA-Continued NEBRASKA-Continued Columbia Heights

Dilworth Duluth Hopkins, 2 Lake City Manganese Minneapolis, 10 Osseo

Robbinsdale Rochester St. James St. Paul, 4 St. Peter Taylor Falls Waseca, 2

Winsted MISSISSIPPI

Biloxi Cleveland Drew Flora Hattiesburg Jackson Linn Meridian Monticello Shaw Sumner

MISSOURI

Hannibal Maplewood Milan Normandy Rockport St. Louis, 9 South St. Joseph Steelville Webster

MONTANA

Alberton Browning Butte Darby Dixon Frenchtown Glendive, 2 Missoula, 9 St. Ignatius Willow Springs

NEBRASKA

Albion Allen Alliance Barneston Brady Columbus Creighton Dodge County Fremont Gehring Holmesville Humphrey Kearney Leigh Lincoln, 4 Loma Marquette

North Loup

Northport

Omaha Phillips Potter, 2 Rising City Schuyler Scottsbluff Scribner, 3 Snyder South Sioux City Spalding Thaver

NEVADA Carlin

NEW HAMPSHIRE

West Point

Laconia, 3 Manchester Nashua Salmon Falls Somersworth

NEW JERSEY

Bayonne, 2 Bloomfield, 5 Bogota, 3 Bordentown Boundbrook Butler Clarksboro Clifton Delaware Park Egg Harbor Elizabeth Englewood Garwood Gibbstown Gloucester Harrington Park Harrisonville Jerico Kearny Linden, 2 Madison Mickleton Mount Royal Newark Orange

Paulsboro, 2 Perth Amboy Phillipsburg Pitman, 3 Rahway, 2 Teaneck, 3 Trenton Westville Westville Grove Woodbury

Paramus Boro, 3

Passaic

NEW MEXICO

Dexter East Las Vegas Mosquero Roswell NEW YORK

Adams Akron Albany Amsterdam NEW YORK-Continued

Bayside Bellevue Binghamton, 2 Brooklyn, 2 Buffalo, 2 Canton Cattaraugus Cedarhurst Celeron Copiague Endicott Fillmore Flatbush Fort Johnson Franklinville Frewsburg, 2

Gouveneur Herkimer Holbrook Ilion Inwood, 2 Jamaica Kerhonkson Kingston Lakewood Lynbrook New York City, 4 Niagara Falls

Northport North Salem Nunda Ogdensburg Oneonta Penn Yan, 2 Rensselaer Rochester, 3 Rome, 2 Saranac Lake Savville Seneca Falls Snyder Southampton Southold

Southport Stevensville Syracuse, 5 Utica Wellsville Westfield Westmoreland West Sayville Whitehall, 2 Williamsville Yonkers

NORTH CAROLINA

Charlotte Rocky Mount

NORTH DAKOTA

Braddock Cooperstown Dazey Eckelson **Epping** Hanks Hannaford Hazelton Johnstown Kulm Lankin Lehr Marion



NORTH DAKOTA-Cont'd OHIO-Continued

Thompson

#### оню

Akron, 5 Alger Alliance Allikanna Arcanum Applecreek Ashtabula, 3 Ashville Athens Andover

Avon Lake, 2 Avon Village Batesville Beaver Belden Bellbrook

Bolindale Brady Lake Bridgeport Brier Hill Brighton Brimfield

Brookfield Township, Trumbull County Brooklyn Heights Brooklyn Station Caldwell Campbellstown Canton, 17 Carbondale

Champion Township, Trumbull County Chauncey Chesterhill

Chesterland Cincinnati Cleveland, 12 Coitsville

Coitesville Township, Mahoning County

Columbia Columbus, 6 Concord Coolville Coshocton Courtland Dalton

Darke County, Butler Township Dayton, 7 Defiance

Dillonvale Doylestown Eaton Township, Lorain County Edwards Station

Elyria, 2 Euclid Village, 4 Fairport Harbor Fairview Village

Fowler Galion Garfield Heights, 2

Glendale Glouster Green Camp Harrisburg Hartford

Independence Village Ironton

Kansas Kent Kenton

Killbuck Village La Grange Lake County, Brookfield Twp. Lakewood

Leetonia Lerov Levittsburg Liberty Township, Trumbull County

Lodi Logan Lorain

Lorain County, Sheffield Twp., 3 Louisville Lowellsville Luckey Lynhurst Village

Lyra McComb McDonald Macksburg Mansfield, 2 Marion

Marion Township, Franklin County, 2 Martins Ferry, 2 Massillon

Masury Mayfield, 2 Mayfield Center, 2 Mesopotamia Middlebranch Middletown, 2 Milan

Millersburg Mineral Ridge, 2 Mingo Junction Mogadore

Montgomery County, Van Buren Twp.

Napoleon Nelsonville New Albany Newcomerstown New Philadelphia Newport

Newtown Niles Nimishillen Twp., Stark County

North Industry North Ridgeville Olmsted Falls Osborne Painesville

Parma Pennfield Township, Lorain County Pennsville

Piqua, 5 Plain Township, Stark County Port Clinton Portsmouth

OHIO-Continued

Port Washington Puritas Springs Randolph Ravenna, 2 Rock Creek Rocky River Royalton Russell Russia Sandusky Sandyville

Savannah Sharon Sharonville Shawnee Township, Allen County

Sheffield Lake Village, 2 Shilo Shreve Smithville South Amherst South Charleston Spencer

Springfield, 11 Sterling Steubenville, 5 Stockdale Stockport Summerfield Toledo, 2

Toronto Trotwood Urbana Uniontown Valley City Van Wert

Venice Waco Wadsworth, 2 Wapakoneta Warrensville Waverly

West Carrollton West Farmington Woodville

Worthington, 2 Xenia Youngstown, 12

#### OKLAHOMA

Ada Allen Bristow, 3 Burbank Claremore Ferry Francis, 2 Graunton Healdton, 2 Heavener, 2 Haskell Hitchcock, 2 Holdenville, 2 Kiefer Lawton Lindsay Miami

Muskegon, 4

Oilton, 2

Panama

Pitcher, 3

OKLAHOMA-Continued PENNSYLVANIA-Cont'd

Poteau Quapa Quinton Sand Springs Sapulpa Shawnee Stillwater Wapenucka Wetumka

Wister PENNSYLVANIA Allegheny County, Bethel Township Allentown, 2 Aliquippa, 2 Alverton Ardmore Armagh, 2 Beaver Falls, 7 Berwick Bessemer Bethlehem, 2 Belle Vernon Blakely Blooming Glen Bloomsburg Branchdale Brentwood Brockport Brookhaven Broomall Brownsville Butler Cairnbrook Cambria County

Cambridge Springs Canonsburg, 2 Cassandra Castle Shannon Central City Chaddsford Chambersburg Cheltenham Cherry Tree

Chester, 3 Clairton Clearfield County Clymer

Coatesville, 3 Colver Connellsville, 2 Corry, 2 Crucible, 2 Dale Borough

Denbo

Donora, 2 Duncannon Duquesne, 2 Eastbrook East Pittsburgh Ebensburg Eddystone, 2

Ellwood City Emporium Erie Fairhope Farrell Fayette City, 2 Fayettsville Forest Hill

Forestville

Forty Fort Franklin, 2 Franklin Township,

Washington Co., 2 Gallitzen Gettysburg Glenburn Greensburg, 3 Grindstone Harrisburg, 2 Hatfield Hecla

Heilwood Highspire, 2 Holmes Houston Houtzdale Hummelstown Huron Indiana Indianola

**Teanette Terome** Johnstown, 8 Lakemont Lancaster Latrobe Leiperville Lemovne Library Lime Ridge Lyndora McCullough Madera Mahanoy City Marcus Hook

Midland Mifflinburg Millroy Mineral Point Monassen, 2 Monongahela Morrisville, 2 Mountaindale

Merion

Mount Carmel Mount Laffe Mount Union Nanty Glo Natrona Nemacolin

Neumidia New Castle, 4 New Florence New Holland New St. Clair North Belle Vernon North Braddock

North Strabane Twp., Washington County Oakland Oakmont Oxford Paxtang Pennsburg Perryopolis Philadelphia Pittsburgh, 4 Pittston Port Allegany Pottstown, 2

Pottsville, 5





WEST VIRGINIA-Cont'd PENNSYLVANIA—Cont'd PENNSYLVANIA—Cont'd SOUTH DAKOTA—Cont'd UTAH Washington, 2 Cresbard Parkersburg, 3 Ogden, 2 Thacker Waynesboro Delmont Primrose Redley Township, Richmond War Webster Egan Salt Lake City Weirton West Bethlehem Delaware County Gettysburg Westmoreland Ridgway West Leisenring Harrold VIRGINIA Ridley Park West Manchester Hecla Williamson River Valley Township Huron, 3 Abingdon Willsburg Westmont Appalachia, 2 Yukon Rochester, 2 Java Westmoreland County, Lake City Big Stone Gap, 2 Rosedale WISCONSIN Penn Township West Telford Lake Norder Bristol, 2 Rothsville Antigo, 3 Lake Worden Capeville Saint Clair Beaver Dam Chariton Saint Marys West View McLaughlin Cashton Clintwood Scalp Level Whitaker Onida Cross Plains East Stone Gap Scottdale, 2 White Township, Ordway DePere Beaver County Pierpont, 2 Ettricks Seltzer Dovleston Wilkinsburg Ree Heights Glenwood Shenango Township, Evansville Greendale Lawrence County Wilbur Roslyn Goodman Henrico County, 6 Shoentown Willianstown Rutland Horicon Willistown Vermilion Leesburg Sides Hudson, 2 Marchipongo Wilson, 2 Virgil Somerset Hurley, 2 Mount Jackson Westport Wolftown Somerset County Tuda Newport News Woodlawn, 3 Winner Souderton, 2 Kimberly Petersburg South Union Twp., Wood Lyn La Crosse, 2 Saltville Wood Lyne TENNESSEE Fayette County Madison, 4 Temperanceville Zelienople, 2 Chattanooga Smyser Merrill Wallace, 2 Star Junction, 2 Erwin Milwaukee RHODE ISLAND Williamsburg Steelton Knoxville, 2 Neenah Williamsport Pawtucket Steffin Hill Nekoosa Stony-Creek Twp., Providence TEXAS WASHINGTON Sextonville Cambria County Brownsville Alderwood Manor Shawano SOUTH CAROLINA Strafford Castroville Sheboygan, 2 Anacostes Summit Hill Bennettsville Dallas Bellingham South Range Summit Park Clover Eagle Lake Burlington Sussex Edinburg Fredericksburg Susquehanna, 2 Dillon Cle Elum Thorpe Rock Hill, 2 Tamaqua, 3 Tomah Everett Winnsboro North Bend Tarentum Galveston, 3 Town of Lake Topton Houston, 2 Waukesha, 3 Seattle SOUTH DAKOTA Tower City Kerrville Wausau, 6 WEST VIRGINIA Trainer Aberdeen, 8 Logan Wauwatosa Trotter Artesian Marfa Bartley West De Pere Coalwood Wisconsin Rapids, 2 Troy, 2 Maxwell Barnard Mineral Wells Collier Ulster Bonesteel WYOMING Excelsion Bonilla Ogden Uniontown, 3 San Antonio Hamlin Casper, 2 Unionville, 2 Bradley Cheyenne Huntington, 2 San Benito Upper Darby, 2 Bristol Douglas Lenore Upper St. Clair Twp., Cavour Welasco Wichita Falls Green River

#### Summary

Newhall

The above is a partial list of schools in which Evans Vanishing Door Wardrobes are installed. It is evident that this equipment must have some especial merit to have met with such favor. This wardrobe is repeatedly specified by many Architects. As an illustration, one firm of Architects in Oklahoma City, Oklahoma, have used our equipment in over 50 schools, their name given on request. It would be interesting to see photographs of the schools so equipped and to know the names of the Architects and Contractors, but it would take a book of several thousand pages to illustrate the work properly. We thank the Architects for making the Vanishing Door

possible and also favorably known.



Allegheny County, 2

Columbia

# Evans Ring Joint



"The Weakest Place Made the Strongest"

Trade Mark

#### "RING JOINT"

Reg. U.S.A. and Canada

Patented in the United States, Canada and Foreign Countries Copyright 1927

Cable Address "EVANSHINGDOR" Western Union Code

## W.L.EVANS

Washington, Indiana, U.S. A.

Windsor, Ontario, Canada

## Evans Ring Joint

Patented

The Evans Ring Joint Machine, Model K, is designed for factory use or to be taken to the job, and is supplied with a motor to meet the requirements. This machine with tools, crated and ready to ship, weighs about 250 pounds. The Three-phase Motor for same, crated, weighs 100 pounds, and the Single-phase Motor, crated, weighs 150 pounds. In ordering the machine be sure and give the current to be used; that is, the Phase, Cycle and Voltage.

It does not require an expert to operate this machine; even a boy sixteen years old can operate it as well as a man. It is as safe as a woodworking machine can be made.

The trim is grooved from the under side, a fan taking the shavings out. The stock can be grooved in pairs or singly, but preferably the latter, with mitred trim of long lengths. The groove should be made deep enough that the ring will center with the thickness of the trim.

To Ring Joint the trim when in long lengths, use two trestles of proper height to hold the outer ends of the trim. Cover the cutter by turning the rotary table until the solid part of this table is over the cutter. Put glue on the surfaces to be joined, then set the cone in place with the ring thereon, turn the hand wheel, and in two seconds you have a perfect joint that will stay perfect.

When trim is molded to a special pattern run a Babbitt-metal form to go under the trim where the pressure comes. Don't try to use a wood form, for the pressure used in expanding the ring and pushing it in place is anywhere from two to four tons.

On a big job of mitres, run a truck load of trim up to the side of the machine and groove it one piece at a time, and when it is all grooved then start putting on the rings, having an extra man putting the glue on the mitres and then washing off any glue that may squeeze out in putting on the rings. He will be more than busy keeping up with the operator. When the trim is Ring Jointed it will require another man to nail a small strip across the bottom end and set it away. He will also be busy. The capacity of the machine is limited only by the speed of the operator.



# Evans Ring Joint Machine

Model "K"

A light-weight machine to be used in the factory or taken to the job. It should pay for itself in 100 hours.

Page Forty-four

#### **EVANS RING JOINT**

## Evans Ring Joint

Patented



Evans Ring Joint Machine

Model Junior "D"

PATENTED

A Bench Machine to use on the job It should pay for itself in 100 hours The Evans Ring Joint Machine, Model Junior D, is designed for Contractors' use, to be taken and used directly on the job, moving it from floor to floor. It weighs, crated ready to ship, 250 pounds. It is supplied with either a Three-phase Motor, weighing 100 pounds, crated; or a Single-phase Motor, weighing 150 pounds, crated. Most Contractors require a Single-phase Motor so as to attach directly to the light line. In ordering the machine be sure and give the current to be used; that is, the Phase, Cycle and Voltage.

The Model Junior D is a bench machine which costs more to build than Model K and works as perfectly and satisfactorily, other than it is operated with hand levers instead of foot levers. For the main points in the operation of the machine, see page 44. The bench should be made about 20 inches high, 20 inches wide, and 4 feet long. The machines run so smoothly that they need not be bolted down.

As a money-maker for the Contractor this machine is unequaled. As an illustration: A good carpenter will put together a set of trim with dowels, splines or halving in about one hour, and then the joints will not hold, whereas an apprentice can put together ring joints, after the mitres are cut, at the rate of one a minute, joints that stay put. It is evident that when we say the machine should pay for itself with 100 hours' work, when compared to carpenter cost, the story is not half told.

The extra cost attached to having trim put together at the factory is anywhere from 70 cents to \$1.00 per set with two joints, and then, unless put together with Evans Ring Joints, they will not stay put. To this cost must be added the crating, extra freight on account of bulk, additional drayage, extra handling on the job, damage in shipment with possibly some of the joints broken apart. Most Contractors have a trim saw, and if not, the trim can be bought at the factory already mitred, and then with an Evans Ring Joint Machine it can be put together on the job at a cost so low that it is hardly to be considered when the improved quality of the work is taken into consideration. The machine should pay for itself very quickly.





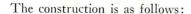
#### **EVANS RING JOINT**

### Evans Ring Joint

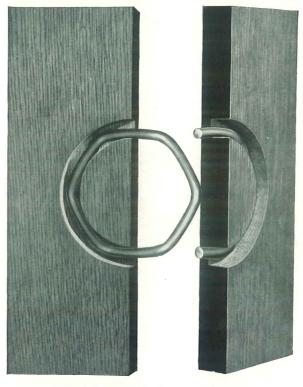
Patented United States and Canada



A Joint That Is Stronger Than the Wood Fiber Reverse Side



One, two or more pieces are placed in the machine and grooved; in this groove is then seated a corrugated steel ring which is originally smaller than the inner diameter of the groove. In the seating of the ring it is expanded over a Hard Steel Cone until it has been expanded to the size of the inner diameter of the groove and is pushed over the cone and discharged into the groove, being pushed down to the bottom thereof. It is evident that whatever power it took to expand the ring is then used to hold the joint together, and this pressure on a single ring can be made to exceed two tons. Nothing less than a destructive force will open the joint. The wood may shrink, but the ring takes up the slack that would come in dry stock. The wood may swell, but the ring moves with it.



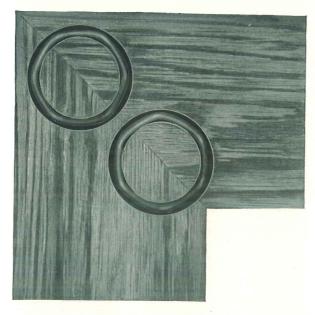
Showing Detail of Construction

Each joint requires a corrugated ring, for the ring is left on the work, exerting a constant pressure on the joint, this pressure being stronger than the wood fiber. The corrugated steel ring always exerts a tendency to take its corrugated form, thereby in case of shrinkage decreasing the diameter of the ring.

With the Evans Ring Joint the pressure is sufficient to take up any variation caused by shrinkage in kiln-dried stock, keeping the joint perfect. And the more the wood swells the tighter the joint gets. Compare this joint with any other kind and it is found to be better and many times cheaper to construct. Contractors and Owners call for this joint and Architects specify it, for it means better work at less cost.

## Evans Ring Joint

Patented



Reverse Side

We show here a mitred casing put together with two rings. This is advisable in wide casings, as you get double the joint pressure. The cost of inserting the rings is small, and very little time is lost in putting in two rings instead of one. In this example here shown the casing is a molded pattern, and while the cut does not show it, yet one of these rings is set in deeper than the other.

The Evans Ring Joint has been in use several years, and hundreds of carloads of Mitred Trim have been sent to various points in many states. It is not an experiment.

The public can now get this machine and the rings which must be used with it, as they are patented as an article of manufacture. The machine, the joint and the ring are all covered by United States, Canadian and foreign patents.

The rings are in three sizes—1½-inch, 1¾-inch, and 2-inch—packed 100 in a box. We have the machines and rings ready for prompt shipment.



Reverse Side

SEE THIS. A joint for splicing material in width. It is made of two pieces of material secured with Evans Ring Joints. The joint is so good it can hardly be seen. This is the joint for table tops, drain boards, inside finish, outside finish, shelving, wooden boats, and a thousand and one things.

The dampness will not pull it apart and it takes care of the shrinkage. The damper it gets the tighter the joint, and it will not open from shrinkage in ordinary dry stock, for as the wood becomes smaller in size the corrugated steel ring automatically takes up the variations.







No. I



No. 3



No. 4



ABOVE ILLUSTRATIONS SHOW THE REVERSE SIDE of various adaptations of Ring Joints. Many other uses will present themselves to the users of our equipment.

Joint No. 1 is adapted to the manufacture of furniture, screen doors, panels, jambs, etc. It shows the wooden ring that fits into the groove over the ring. The machine is provided with an adjustable cutter head that not only cuts the groove but also the ring. The wood rings are cut by making grooves in a board and ripping off to the thickness required.

No. 2 shows an angle joint such as found in angle stair panels; when made the old way it invariably

opens. It is just as easy to make with a Ring Joint as any other and stays tight.

No. 3 shows an end splice made with a butt joint rung together. It is wonderful what beautiful work can be made in this way.

No. 4 illustrates a combined butt and side joint which is used for a thousand things, and No. 5 if made the old way is one of the most difficult joints to make that is known to the art and the hardest to make hold. With the Ring Joint it is as easy to make as any other joint and it stays tight.

"This is the end of a perfect day." In submitting to your our Catalog J we consider it mutually a day well spent.

